

PURDUE UNIVERSITY

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
TO AGRICULTURE, EARTH RESOURCES, AND MAN'S ENVIRONMENT
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Skylab/EREP Report for the period of July 1974.

Project SR-397 Contract # NAS 9-13301

Activities during the subject reporting period were concerned principally with the completion of preparing the results of the previous six months work to be presented at the A.A.S conference at Los Angeles in August and also attending the Principle Investigators Conference at J.S.C.

(A) Overall Status

Some further study was done concerning the anomaly in the black and white infrared imagery around Lake Monroe in conjunction with personnel at J.S.C. over the telephone. The financial needs for the SKYLAB extension are being formulated.

(B) Scientific Recommendations

No recommendations are being made this reporting period.

(C) Expected Accomplishments

The contract extension proposal will be finished during the month of August. Also analysis will begin on the filtered data sets when they are received.

(D) Results

The reason for the anomaly around Lake Monroe in the b & w infrared frames has not been determined definitively. We strongly suspect though that it may be optical flare occurring when the frame was duplicated. Since this same anomaly was not seen in ERTS and SKYLAB MSS data, the SKYLAB color IR photography nor the underflight WB-57 black and white infrared imagery, a moisture affect has been ruled out. Also when the anomaly was scaled, it was found that it sometimes occurs more than 2,000 ft. from the lake and in places where the ground level is more than 100 ft. above the lake level. This tends to rule out a moisture affect.

(E) Travel Summary and Plans

A trip was made to J.S.C. for the Principle Investigators Data Meeting on July 16, 17, and 18. Dr. Leroy Silva and Larry

(E74-10678) [BLACK AND WHITE INFRARED
IMAGERY AROUND LAKE MONROE, INDIANA]
Monthly Report, Jul. 1974 (Purdue Univ.)
2 p HC \$4.00

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Monthly Report
August 5, 1974
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Biehl attended. Future travel is planned to attend the A.A.S. conference at Los Angeles in August.

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